

Your Ref.: 10404/21
Our Ref.: 547314

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**English Translation of
Japanese Patent Application No. 2004-201430
(filed on July 8, 2004)**

5 [CLAIMS]

1. A high strength polyethylene multifilament according to claim 1, wherein said multifilament has a crystal size of monoclinic crystal of not larger than 9 nm.
- 10 2. The high strength polyethylene multifilament according to claim 1, wherein said multifilament has a ratio of the crystal sizes derived from the (200) and (020) diffractions of an orthorhombic crystal of from 0.8 inclusive to 1.2 inclusive.
- 15 3. The high strength polyethylene multifilament according to claim 1, wherein said multifilament has a stress Raman shift factor of not smaller than $-5.0 \text{ cm}^{-1}/(\text{cN/dTex})$.
4. The high strength polyethylene multifilament according to claim 1,
- 20 20 wherein said multifilament has an average strength of not lower than 20 cN/dTex.
- 25 5. The high strength polyethylene multifilament according to claim 1, wherein a knot strength retention of monofilaments constituting the high strength multifilament is not lower than 40%.
6. The high strength polyethylene multifilament according to claim 1, wherein CV which indicates a variation in the strengths of monofilaments constituting the high strength multifilament is not higher than 25%.

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7. The high strength polyethylene multifilament according to claim 1,
wherein said multifilament has an elongation at break of from 2.5% inclusive
to 6.0% inclusive.

5 8. The high strength polyethylene multifilament according to claim 1,
wherein each of filaments constituting the multifilament has a fineness of
not higher than 10 dTex.

9. The high strength polyethylene multifilament according to claim 1,
10 wherein the melting point of filaments is not lower than 145°C.